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[54] Title: A conjunction structure of bicycle tube with joints of components

[21] Application No.: 81204343

[22] Filing Date: 1992.04.09

[72] Inventor: Bai Qingdong, Taiwan

[71] Applicant: Qiaoda industrial Co., Ltd., Taiwan

[74] Agent: Lin Yizhu

[57] Claim:

An interconnecting structure of a bicycle tube with joints of other components by which a bicycle frame is constructed with the bicycle tube and other components, e.g. head tube, bottom bracket, seat post and rear fork, characterized in that the interconnecting structure is wrapped with a coat, a supporter is set outside the coat, and the entirety is wrapped by a further coat while connectors constructed by cladding a supporter with a coat are provided inside the bicycle tube and the components, wherein said coat is formed by winding carbon fiber reinforced thermosetting resin plate, said supporter is made of a foaming material, and the structure is fabricated by integrally molding at a high pressure and a high temperature.

Brief description of drawings:

Fig. 1 is a plain view of the bicycle frame of the present invention.

Fig. 2 is a sectional view of the bottom bracket of the present invention.

Fig. 3 is an illustration of processing the bottom bracket of the present invention.

Fig. 4 is a processing procedure of the present invention.

Fig. 5 is an illustration showing conjunction of the head tube with the bicycle tube.

Fig. 6 is an illustration of a conventional bicycle frame.

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全 3 頁

(54) 名 稱: 自行車車管與構件接頭接合之結構

(21) 中 請 案 號: 81204343

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(72) 創 作 人:

白清棟

台中縣大甲鎮幼獅工業區幼三路三號

(71) 申 請 人:

僑大工業股份有限公司

台中縣大甲鎮幼獅工業區幼三路三號

(74) 代 理 人: 林益珠 先生

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(57) 申請專利範圍:

一種自行車車管與構件接頭接合之結構，其車架係以車管與前車管、五通管、座墊車管及後叉等構件接合而成，而其特徵係於：車管與各構件之接頭內部設連接體，連接體以覆層包圍於撐持體外部，而車管與接頭之外部纏繞覆層後，再於覆層外部設撐持體，最後再纏以覆層，其中，覆層係以碳纖維浸熱固性樹脂片狀體纏繞而成，而撐持體則以發泡材料製成，最後再將整體置入模具內加壓加熱成型一體之結構者。

圖示簡單說明：

第一圖：係本創作之車架平面示意圖。

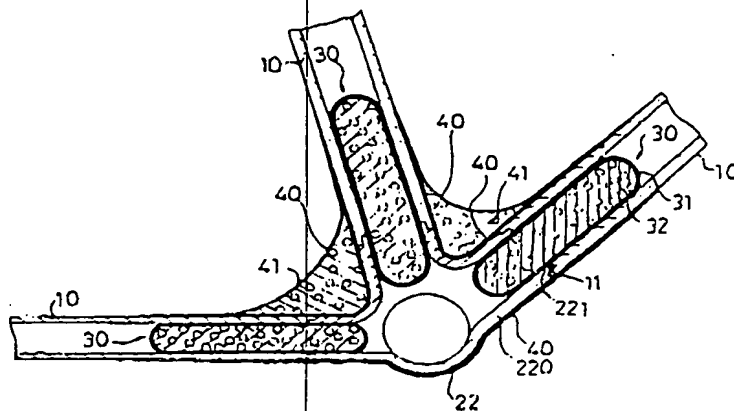
第二圖：係本創作之五通管局部剖面示意圖。

第三圖：係本創作之五通管局部施工示意圖。

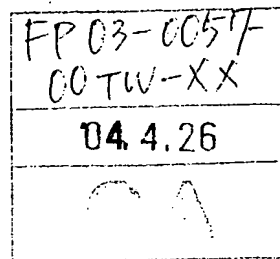
第四圖：係本創作之製作流程示意圖。

第五圖：係本創作之前車管與車管連接示意圖。

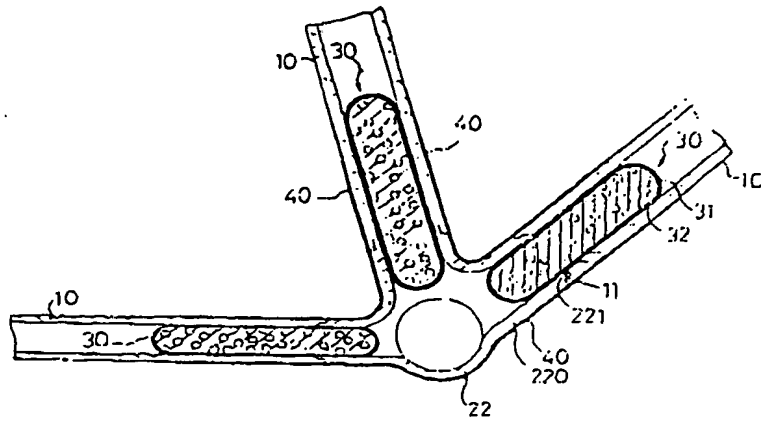
第六圖：係習用車架之示意圖。



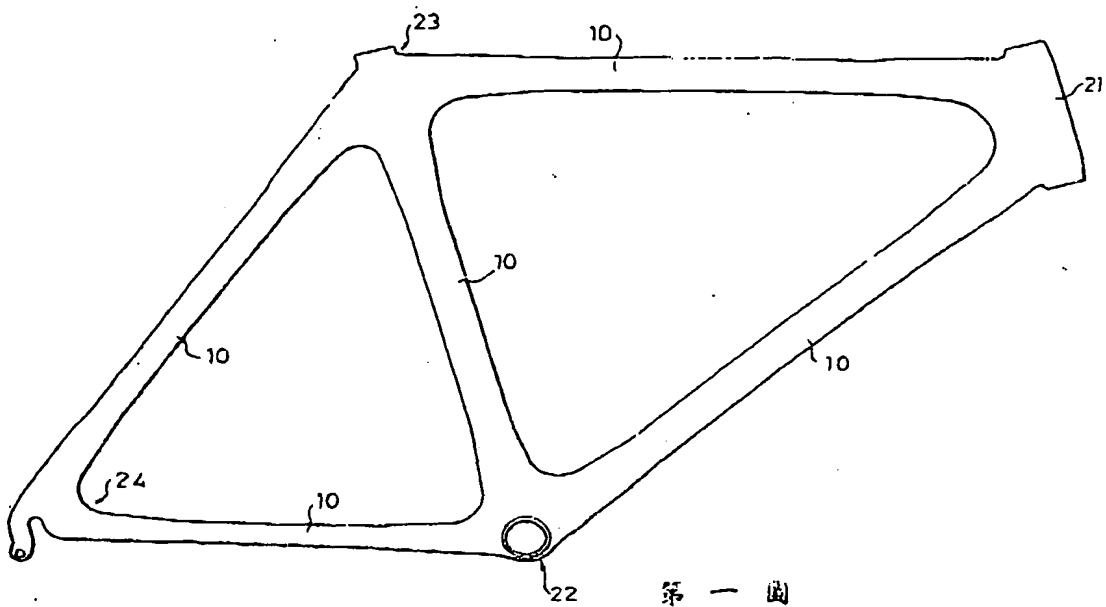
第 二 圖



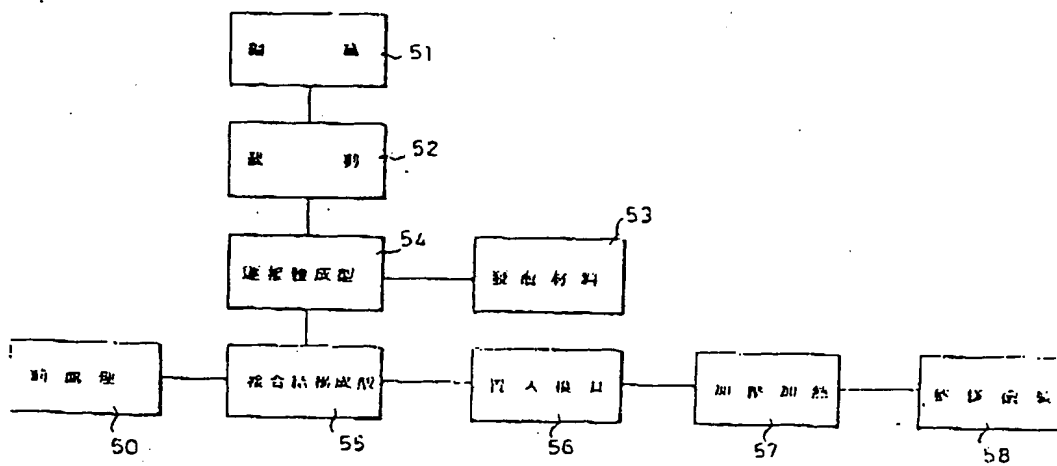
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第三圖

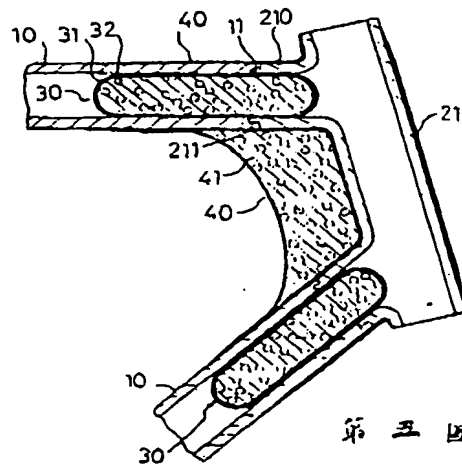


第一圖

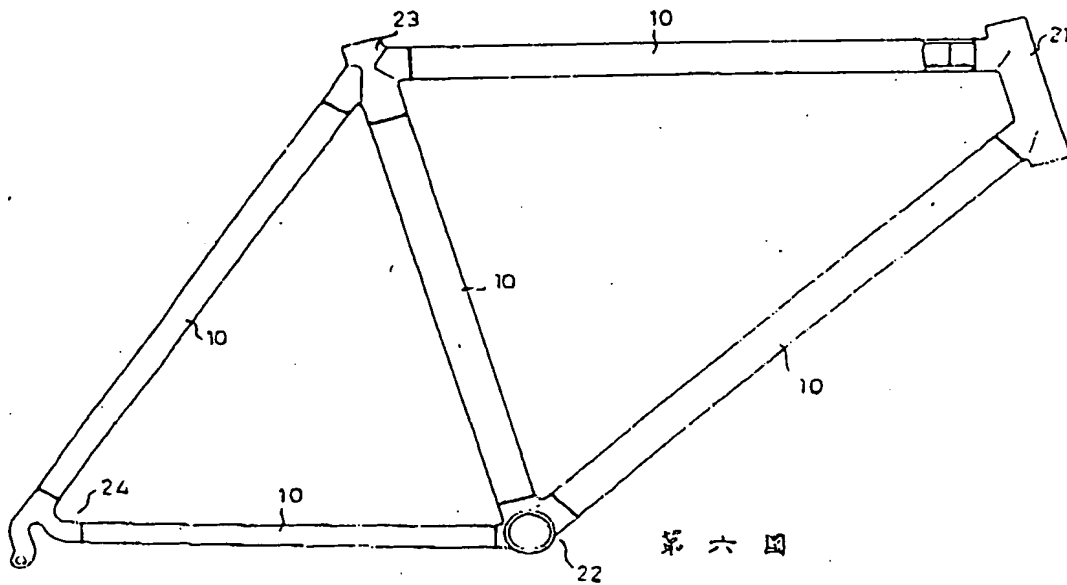


第四圖

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第五圖



第六圖